Elxflash Offline/Online Utilities Release Notes

Versions: Linux ElxflashOffline Kit, Version 6.0.19.1, including:
- Linux ElxflashOffline, Version 6.0.19.1
- Linux ElxflashOffline for NIC-only, Version 6.0.19.1
- LinLpCfg, Version 6.0.19.1

Linux ElxflashOnline Kit, Version 6.0.19.1
Windows ElxflashOffline Kit, Version 6.0.19.1, including:
- Windows ElxflashOffline, Version 6.0.19.1
- WinLpCfg, Version 6.0.19.1

Windows ElxflashOnline Kit, Version 6.0.19.1

Date: May 2012

Purpose and Contact Information

These release notes describe the resolved issues, known issues, and technical tips associated with the Elxflash offline/online utilities for Linux and Windows (abbreviated to "Elxflash utilities" in this document). These command line utilities are Emulex programs that allow you to configure and manage Emulex LightPulse™ host bus adapters (HBAs) and OneConnect™ Universal Converged Network Adapters (UCNAs). For information about these utilities and their supported platforms, see the *Emulex Elxflash Offline/Online Utilities, Version 6.0, User Manual*.

For the latest product documentation, go to www.Emulex.com. If you have questions or require additional information, contact an authorized Emulex technical support representative at tech.support@emulex.com, 800-854-7112 (US/Canada toll free), +1 714-885-3402 (US/International), or +44 1189-772929 (Europe, Middle East, and Africa).

Resolved Issues

1. **Provides support for the following commands:**
   - /s - silent mode to mute all output
   - /fo - use the flash executable on supported UNCAs
   - /i=<image_dir> - specifies the base directory where the firmware and boot directories are located.
2. **Provides interoperability support for CentOS 5.6+ (x86 and x64) and CentOS 6.0+ (x86 and x64) for the Offline and Online Adapter Management Utilities.**

Known Issues

Linux Offline/Online and Windows Offline Known Issues

These issue are applicable to the Linux ElxflashOffline/ElxflashOnline kits and the Window ElxflashOffline kit unless stated otherwise.

1. **An incorrect Vital Product Data (VPD) serial number causes the Elxflash utilities to mis-identify OneConnect OCe10102 and OCe11102 FCoE UCNAs.**

   If the Fibre Channel over Ethernet (FCoE) UCNA VPD serial number does not match the serial number reported by the MILI daemon, Elxflash offline/online utilities may misidentify the OneConnect OCe10102 or OCe11102 FCoE UCNA as an OCe10102 or OCe11102 Internet Small Computer Serial Interface (iSCSI) UCNA.

   Workaround

   Confirm that the OCe10102 or OCe11102 FCoE UCNA's VPD serial number matches the serial number reported by the MILI daemon.

2. **When using the fwmatrix.txt file, the Elxflash utilities use the last matching entry of the UCNA/HBA being evaluated.**

   If there are multiple entries, the Elxflash utilities use the last matching entry only. This is expected behavior. Verify that the fwmatrix.txt file does not have duplicate entries.

3. **When using an inbox be2net driver, some fields are reported as "N/A" (Not Applicable) on UCNAs.**

   For the Linux ElxflashOffline utility:

   When using an inbox be2net driver, NIC and iSCSI functions are not available. For FCoE, this utility is expected to report certain fields as "N/A".

   Workaround

   This utility requires out-of-box be2net and be2iscsi drivers.

   For the Linux ElxflashOffline for NIC-only utility:

   On RHEL 5.5 and SLES 10.4, OCe11100 UCNAs are not supported by the inbox driver. This utility reports certain fields as "N/A."

   Workaround

   - For RHEL 5.5, use the driver update package (DUP), version 4.0.359.0.
   - For SLES 10 SP4, use the driver update disk (DUD) with be2net driver 4.0.359.0.

   For the Windows ElxflashOffline kit (WinPE):

   For NIC, an inbox driver is not available, and NIC and iSCSI functions are not available. For FCoE, this utility is expected to report certain fields as "N/A"

   Workaround

   Use the Emulex installer to install the driver and applications components on WinPE.Linux and Windows Offline-Only Known Issues

Linux and Windows Offline-Only Known Issues

These issue are applicable to the Linux and Windows ElxflashOffline kit, unless stated otherwise.

1. **For Linux ElxflashOffline, LinLpCfg, and the Windows ElxflashOffline kit, when the MILI daemon is not running, these utilities are unable to report iSCSI and Ethernet (Network Interface Card (NIC)) functions, which also causes UCNA firmware downloads to fail.**

   This is expected behavior. Verify that the MILI daemon is running before running these Elxflash utilities.

   Workaround

   None.

2. **For Linux ElxflashOffline, LinLpCfg, and the Windows ElxflashOffline kit, the loopback ("lo") interface IP address must be 127.0.0.1 for the MILI daemon to start.**

   Workaround

   Configure the "lo" interface IP address to 127.0.0.1.

3. **For LinLpCfg and WinLpCfg, the displayed version may not match with some UCNA firmware and applications.**

   On OCe10102 FCoE UCNAs, firmware on FCoE and Ethernet functions are reported in a 2.70x.xxx.xx format, while OCe10102 iSCSI firmware is identified in a 2.10x.xxx.xxx format.

   On OCe11102 FCoE UCNAs, firmware on FCoE and Ethernet functions are reported in a 3.70x.xxx.xx format, while OCe11102 iSCSI firmware is identified in a 3.10x.xxx.xxx format.

   The number "7" indicates that an FCoE initial program load (IPL) is installed on the UCNA. The displayed version is reported by the MILI daemon and is expected behavior.

   Workaround

   None.

4. **For LinLpCfg and WinLpCfg, the DmaTest command is only supported on OneConnect UCNAs.**

   Workaround

   None.

Linux-Only Offline/Online Known Issues

These issues are applicable to the Linux ElxflashOffline kit and the Linux Elxflash Online kit, unless stated otherwise.

1. **The iSCSI or Ethernet (NIC) functions are not displayed when an inbox be2net driver is used.**

   This is expected behavior.

   Workaround

   Use an out-of-box be2net drivers.

2. **Using an inbox be2net driver causes the MILI daemon to be unavailable. As a result, the following occurs: Elxflash will not report iSCSI or NIC functions, and FCoE CNA firmware downloads fail.**

   This is caused by the underlying utilities (HBACMD/LpCfg) not reporting iSCSI and NIC functions because the MILI daemon is unavailable. This is expected behavior.

   Workaround

   Use an out-of-box driver.

Linux-Only Offline-Only Known Issues

These issues are applicable to the Linux ElxflashOffline kit, unless stated otherwise.

1. **The LinLpCfg rpm does not install with RHEL 5.6 (or later versions) due to a missing library, causing the Linux ElxflashOffline kit installation to fail.**

   The LinLpCfg rpm does not install due to a missing libnl (Net Links) library. Unlike other supported operating systems, RHEL 5.6 (or later versions) does not install the libnl library during a default installation.

   Workaround

   Install the libnl library from the RHEL 5.6 (or later versions) distribution media.

2. **Remote installation may fail when using the OneConnect UCNA Ethernet interface as the default gateway.**

   During a remote installation, the shell may freeze and installation may fail if the remote system is using a OneConnect UCNA Ethernet interface as the default gateway.

   Workaround

   Emulex recommends using local installations. However, if the remote system has a non-OneConnect UCNA Ethernet interface, verify that this interface is being used as the default gateway prior to running the Elxflash Offline installation script.

3. **For Linux ElxflashOffline and LinLpCfg, after a Network Communications Services Interface (NCSI) download, the system must be rebooted.**

   This is expected behavior. The system must be rebooted after an NCSI download.

4. **For LinLpCfg, when issuing a UCNA firmware download, a file path with spaces is not allowed.**

   Workaround

   The LinLpCfg utility currently includes a workaround that prevents a UCNA firmware download from using a path to a file that includes spaces.

5. **For NIC-only Linux ElxflashOffline, only OneConnect UCNAs are supported and only Ethernet functions are displayed.**

   This NIC-only utility does not support LightPulse HBAs and does not display iSCSI or FCoE functions. This is expected behavior.

   Workaround

   None.

Linux-Only Online-Only Known Issues

These issues are applicable to the Linux ElxflashOnline kit, unless stated otherwise.

1. **Elxflash reports the FCoE firmware version as "N/A" when using an inbox be2net driver. This also causes FCoE functions to be skipped during a firmware download.**

   This is expected behavior.

   Workaround

   Use an out-of-box driver.

Windows-Only Offline Known Issues

These issues are applicable to the Windows ElxflashOffline kit.

1. **The MILI device does not start if the wpeinit application is disabled at boot up.**

   Workaround

   Do not disable the wpeinit application since it is required for the MILI daemon to start.

2. **The silent mode "/q2" does not work correctly on WinPE3.1.**

   The silent option "/q2" does not work correctly on WinPE3.1. As a result, the Ethernet, iSCSI, and FC drivers may not load during installation.

   Note: The non-interactive mode "/q1" still works correctly.

   Workaround

   None.

Offline and Online Adapter Management Utilities Manual Known Issues

These issues are applicable to the Offline and Online Adapter Management Utilities Manual.

1. **There is an error with the intloopback and extloopback code samples.**

   The following code samples for intloopback and extloopback are incorrect:

   intloopback n=all ....

   extloopback n=all ....

   Workaround:

   Replace the code line in the manual with the instances of intloopback or extloopback that would be encompassed by n=all.

   For instance:

   ```
   intloopback n=all r=10 o=1
   ```

   should be replaced by:

   ```
   intloopback n=1 r=10 o=1
   intloopback n=2 r=10 o=1
   ```

   and

   ```
   extloopback n=all r=40 o=3
   ```

   should be replaced by:

   ```
   extloopback n=1 r=40 o=3
   extloopback n=2 r=40 o=3
   ```

2. **The extloopback, intloopback, and pciloopback commands require additional explanation for the "o=3" option.**

   When the o=3 option is used, lpcfg ignores up to 3 errors during an adapter test before continuing to the next adapter.

   Since the extloopback, intloopback, and pciloopback commands do not support testing all installed adapters, the o=3 option applies to running linlpcfg with the script command. The o=3 option instructs lpcfg to ignore errors and continue script execution.

Technical Tip

1. **The following kit names have changed:**
   - The Offline Adapter Management Utility kit name for Linux has changed from "elxflashOffline-<platforms>-<version>-<rel>.tgz" to "elxflashOffline-linux-<version>-<rel>.tgz".
   - The Online Adapter Management Utility kit name for Linux has changed from "elxflashOnline-tgz-<platforms>-<version>-<rel>.tgz" to "elxflashOnline-tgz-linux-<version>-<rel>.tgz".
   - The Offline Adapter Management Utility Linux Inbox NIC kit name has changed from "elxflashOffline_inbox_NIC-<platforms>-<version>-<rel>.tgz" to "elxflashOffline_inbox_NIC-linux-<version>-<rel>.tgz".

2. **The Offline/Online Adapter Management Utility kit for Citrix operating systems is part of the Linux Offline/Online Adapter Management Utility kit for Linux.**

3. **The following return codes have been added:**
   - 8 - ERROR_NOT_ADMIN_USER - Returned when the user attempting to run the executable is not an administrator (Windows) or root (Linux).
   - 9 - ERROR_UNSUPPORTED_OS - Reserved
   - 10 - ERROR_UNSUPPORTED_ARCH - Reserved
   - 11 - GOOD_ALL_UPGRADES_OK_SKIPPED_UNSUP_OC10 - An unsupported OCe10 UCNA was discovered, but all downloads to the other UCNA/HBAs succeeded.
   - 12 - GOOD_NO_UPDATES_NEEDED_SKIPPED_UNSUP_OC10 - An unsupported OCe10 UCNA was discovered, but no updates were needed on the other UCNA/HBAs.
   - 13 - ERROR_ALL_UPGRADES_FAILED_SKIPPED_UNSUP_OC10 - An unsupported OCe10 UCNA was discovered, and all downloads to the other UCNA/HBAs failed.
   - 14 - ERROR_SOME_UPGRADES_FAILED_SKIPPED_UNSUP_OC10 - An unsupported OCe10 UCNA was discovered, and some downloads to the other UCNA/HBAs failed.
   - 15 - ERROR_NO_SUPPORTED_HBA_SKIPPED_UNSUP_OC10 - An unsupported OCe10 UCNA was discovered, but no HBA/UCNAs were discovered.
   - 16 - GOOD_NO_UPGRADES_AVAILABLE_SKIPPED_UNSUP_OC10 - An unsupported OCe10 UCNA was discovered, but no applicable FW/BC images where found for supported HBA/UCNAs

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